Declassified in Part - Sanitized Copy Approved for Release 2012/08/13 : CIA-RDP83-00415R012700020007-1

SECRET/CONTROL - US OFFICIALS ORLY SECRET/CONTROL - US OFFICIALS ORLY

50X1	ш	IN
$-\omega\omega$	-1 10) I V

German Democratic Republic	30X1-HOW
EXPERIMENTS ON SEPECT OF INC. ON MICKEL WIRE CLOSE	
exper	riments con-
ducted to determine the offect of 20-percent on wery fine mickel wire of	lota.
the purpose of the experiments was to determine whether treatment with I used as elimited of determining the quality of mickel cloth samples.	50X1-HUM
forest kinds of treatment before being immersed in the acid (e.g., heatif beating in air, weshing with assentia, coating with oil) and was immersed mays (vertically, horizontally, partially). In all cases, certain of the were attacked by the acid more pronouncedly than the remaining marp wire shute wires. The reason for this	i in different warp wires sand the warp wi50X1-HUM chars, even st wires which mater, per se.
Other conclusions drawn from the experiments:	极
A int slight oxidation takes place on the surface of the wires which the action of the acid. This oxidation layer, or other surface conting soot or oil, is removed by heating in hydrogen, so that the said acts or more rapidly than in the case of untreated wire cloth.	s such as
The action of the acid on the wire is affected by autocatalysis; information of NO, NO2, and Ni(NO3)2 during the reactionispeeds up the prosolution. The age and condition of the acid used might thus affect the acid which had been kept for some time exposed to sunlight would probable appreciable ascents of the oxides even before the reaction started, when acid would normally contain almost no oxides.	results; ly contain
Because of the variable factors of wire thickness, surface protects dation layer or other coating, and the results of autocatalysis, wrong enight easily be drawn from the effect of the soid on the wire, and the therefore not practical for testing nickel wire cloth.	eon el usions

